

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An ink jet ~~printer~~printer, comprising:
a print head having a plurality of ink jet nozzles arranged in plural columns;
an ink cartridge including an ink accommodation chamber having a deformable wall and an air chamber for exerting via the wall air pressure on ink accommodated in the ink accommodation chamber;
an ink supply tube connecting the ink cartridge to the print head;
an air pump for producing pressurized air for changing a state of ink that is located at a tip portion of each of the ink jet nozzles;
an air supply tube for guiding the pressurized air to the air chamber of the ink cartridge; and
a maintenance unit including a cap member for covering the print head, wherein the maintenance unit opens the cap member ~~in a state that while the air pump supplies the pressurized air is supplied to the air chamber of the ink cartridge~~such that the pressurized air projects the ink in a convex shape from a tip portion of each of the ink jet nozzles.

2. (Currently Amended) The ink jet printer according to claim 1, wherein the maintenance unit further comprises a wiper member for wiping over the print head, and the air pump supplies the pressurized air to the air chamber of the ink cartridge ~~since~~from a prescribed time before the cap member opens till the wiper member completes wiping.

3. (Original) The ink jet printer according to claim 2, wherein the ink cartridge comprises a plurality of ink cartridges that accommodate inks of plural colors, respectively, and are connected in parallel to the air supply tube in a horizontal plane.

4. (Previously Presented) The ink jet printer according to claim 2, wherein an orifice for exhausting part of the pressurized air is provided in a vicinity of an air-pump-side end of the air supply tube.

5. (Previously Presented) The ink jet printer according to claim 2, wherein an orifice for exhausting part of the pressurized air is provided in a vicinity of an opposite end of the air supply tube to the air pump.

6. (Currently Amended) The ink jet printer according to claim 4, wherein the ink ~~cartridges~~ cartridge comprises a plurality of ink cartridges arranged in such a manner that an ink cartridge with a higher ink viscosity is located upstream of a flow of the pressurized air from the air pump to the orifice.

7. (Currently Amended) The ink jet printer according to claim 5, wherein an inner diameter of the air supply tube decreases as ~~the~~ a position goes from the air pump to the orifice.

8. (Currently Amended) The ink jet printer according to claim 2, wherein the print head is located at a position higher than the ink cartridge by a prescribed length, ~~whereby~~ whereby, when the air pump is stopped from supplying the pressurized air, a negative pressure acts on each of the ink jet nozzles of the print head and a concave ink meniscus is formed at a tip of each of the ink jet nozzles.

9. (Currently Amended) An ink jet ~~printer~~ printer, comprising:
a print head having a plurality of ink jet nozzles arranged in plural columns;
an ink cartridge including an ink accommodation chamber having a deformable wall and an air chamber adjoining to the ink accommodation chamber via the wall, the ink accommodation chamber accommodating ink to be supplied to the print head;
an ink supply tube connecting the ink cartridge to the print head;

an air pump for producing pressurized air for changing a state of ink that is located at a tip portion of each of the ink jet nozzles;

an air supply tube for guiding the pressurized air produced by the air pump to the air chamber of the ink cartridge; and

a maintenance unit including a cap member for covering the print head in conducting a maintenance of the print head,

wherein the maintenance unit opens the cap member ~~in a state that while the air pump supplies~~ the pressurized air ~~is supplied~~ to the air chamber of the ink cartridge ~~such that the pressurized air projects the ink in a convex shape from a tip portion of each of the ink jet nozzles.~~

10. (Currently Amended) An ink jet ~~printer-printer,~~ comprising:
a print head having a plurality of ink jet nozzles arranged in plural columns;
an ink cartridge accommodating ink to be supplied to the print head;
an ink supply tube connecting the ink cartridge to the print head;
means for covering the print head so as to shut communication of ink that is located at a tip portion of each of the ink jet nozzles with ambient air;

means for producing pressurized air to be supplied to the ink cartridge for changing a state of the ink that is located at a tip portion of each of the ink jet nozzles; and

means for opening the print head so as to communicate the ink ~~that is located at~~ projecting in a convex shape from a tip portion of each of the ink jet nozzles with the ambient air ~~in a state that while~~ the pressurized air is supplied to the ink cartridge.

11. (Currently Amended) A maintenance method in an ink jet printer, wherein the ink jet printer includes a print head having a plurality of ink jet nozzles arranged in plural columns, an ink cartridge accommodating ink to be supplied to the print head, and an ink

supply tube connecting the ink cartridge to the print head, the maintenance method comprising:

covering the print head so as to shut communication of ink that is located at a tip portion of each of the ink jet nozzles with ambient air;

producing pressurized air to be supplied to the ink cartridge for changing a state of the ink that is located at a tip portion of each of the ink jet nozzles; and

opening the print head so as to communicate the ink ~~that is located at~~ projecting in a convex shape from a tip portion of each of the ink jet nozzles with the ambient air ~~in a state that~~ while the pressurized air is supplied to the ink cartridge.

12. (New) The ink jet printer according to claim 1, wherein the cap cover covers a head surface, of the print head, formed with the ink jet nozzles so as to provide a space between the cap and the head surface, and the maintenance unit opens the cap member when the space in the cap is in a pressurized state.